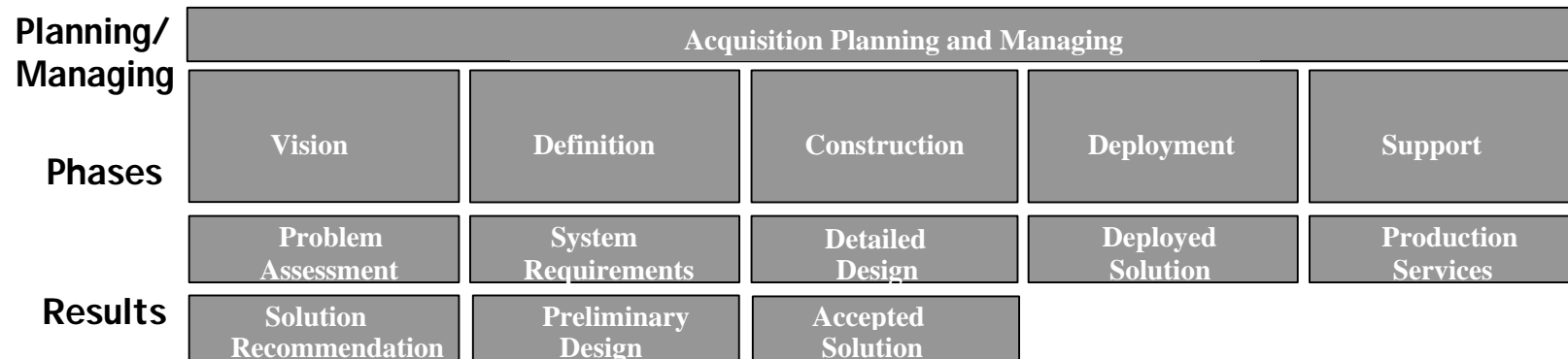# SFA
System Acquisition Planning

- **Systems Acquisitions in the System Development Life Cycle (SDLC)**
- **SA-CMM in the SDLC**
- **System Acquisition Planning (SAP) Analogy**
- **SAP Definition**
- **Benefits of SAP**
- **SAP Objectives**
- **SAP in the SDLC**
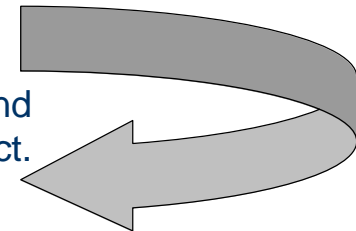- **SAP Tools**
- **Review and Summary**

The SDLC is a framework to guide a successful system acquisition from business case to deployment and support. The outline for the SDLC is illustrated below.

This framework provides SFA with repeatable processes that allow project management to cut down on time, effort, and unnecessary steps by providing an outline to follow throughout the project.

	Acquisition Planning and Managing				
Planning/ Managing					
Phases	Vision	Definition	Construction	Deployment	Support
	Problem Assessment	System Requirements	Detailed Design	Deployed Solution	Production Services
Results	Solution Recommendation	Preliminary Design	Accepted Solution		

The System Acquisition Plan manages the processes used and deliverables produced throughout the life of the project.

Systems Acquisitions and the SDLC

| Vision | Definition | Construction | Deployment | Support |

We begin with a Vision.

A business need has been identified that requires an assessment and solution recommendation.

A member of the SFA Management team is identified to oversee the Vision Phase processes and manage the solution effort from Vision to Support.

This SFA employee is the Executive Sponsor of the project.

SA-CMM in the SDLC

The System Acquisition Maturity Model (SA-CMM) is a Capability Maturity Model for organizational improvement.

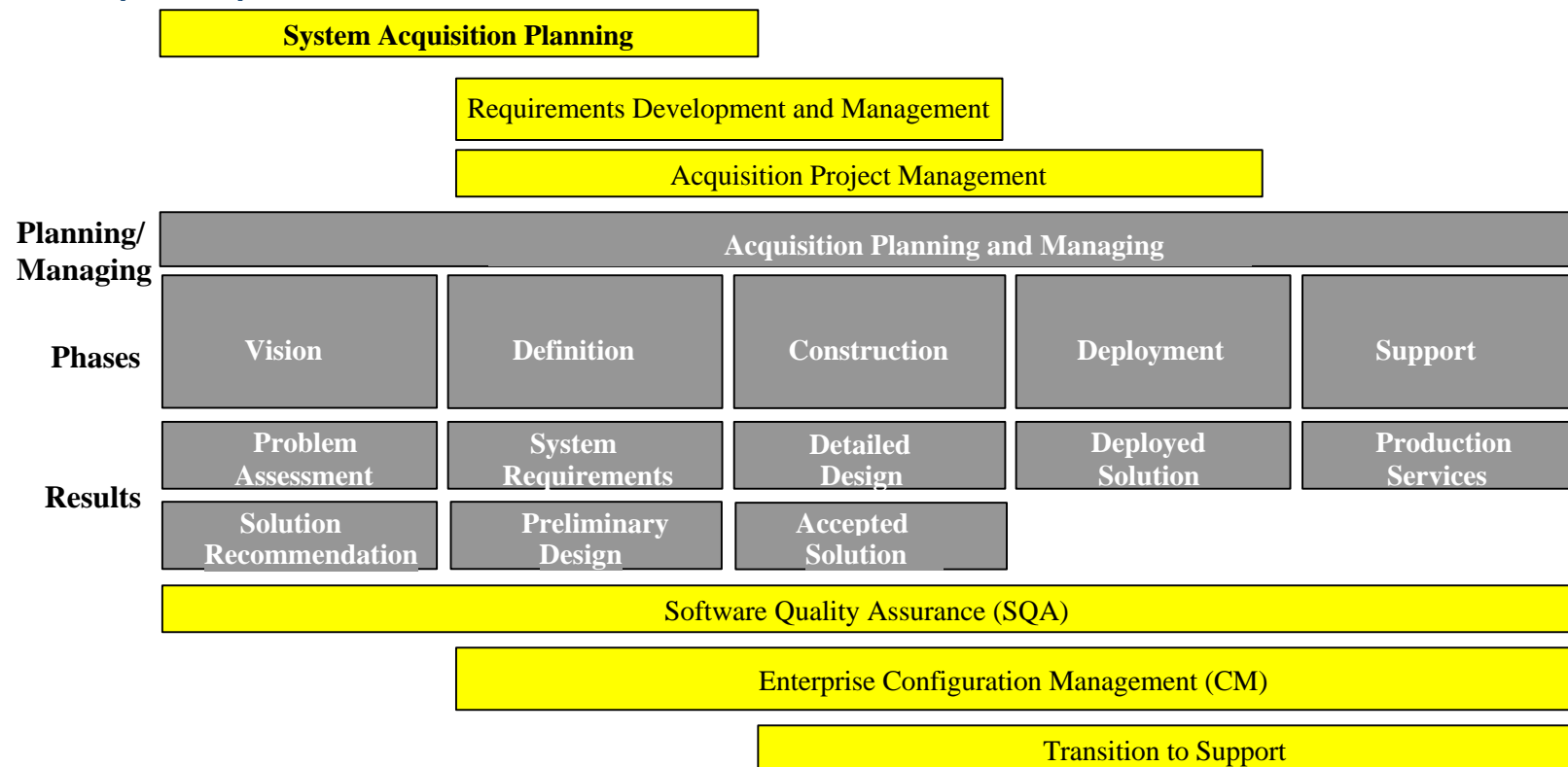**The SDLC is further enhanced by the SA-CMM.**

SA-CMM identifies Key Process Area (KPAs) that organizations should focus their efforts on to ensure their systems acquisitions projects are run efficiently.

These KPAs align with different phases of the SDLC. Defining and developing repeatable processes and procedures within each KPA will help SFA increase the efficiency of the SDLC.

SDLC and SA-CMM

For the FY01 release of the SDLC, SFA is focused its effort on six Key Process Areas (KPAs) from the SA-CMM.

System Acquisition Planning

Requirements Development and Management

Acquisition Project Management

Planning/ Managing	Acquisition Planning and Managing			
Phases	Vision	Definition	Construction	Deployment	Support
Results	Problem Assessment	System Requirements	Detailed Design	Deployed Solution	Production Services
	Solution Recommendation	Preliminary Design	Accepted Solution		

Software Quality Assurance (SQA)

Enterprise Configuration Management (CM)

Transition to Support

This presentation will focus on the System Acquisition Planning KPA and how it fits into the SDLC.

What is SAP?

SAP is similar to hiring an architect to build your home............

You would never let an architect begin building without approving a detailed plan that stated:

- Who would do the work.
- How long the work would take.
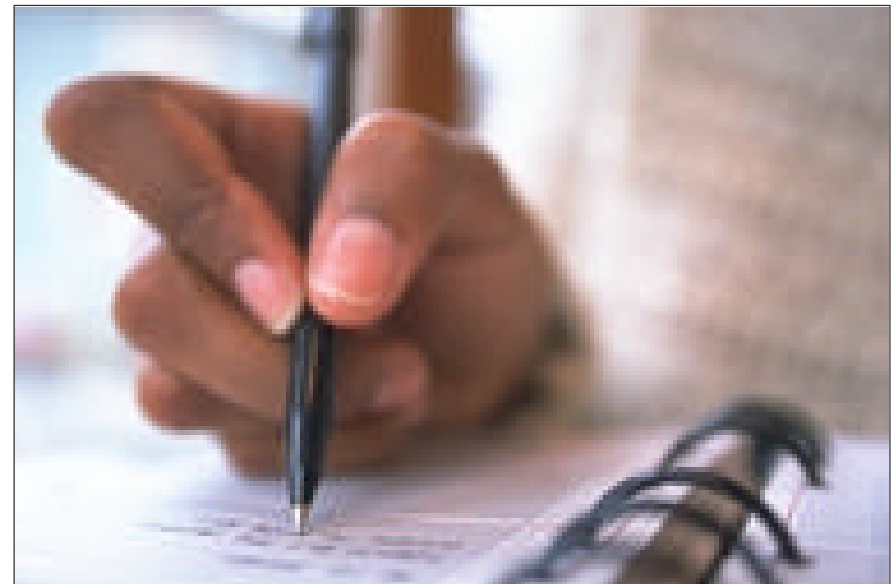- How much the work would cost.
- Etc

System Acquisition Planning (SAP) is to plan, account, manage and measure a system acquisition life cycle cost to improve system acquisition estimation capability and provide repeatable processes.

SAP Involves:
- **Estimating Acquisition Time**
- **Estimating Acquisition Costs**
- **Recording Actual Time**
- **Recording Actual Cost**

SAP provides information that allows for better system acquisition planning, enabling more projects to come in on-time and within budget.

SAP provides streamlined, predictable, repeatable, measurable processes that help SFA meet Performance Objectives:
- Increased Customer Satisfaction
- Increased Employee Satisfaction
- Reduce Unit Costs

Results:
- Using the appropriate processes means higher quality work (Increased Employee and Customer Satisfaction)
- Repeatable processes means lower cost (Lower Unit Costs)
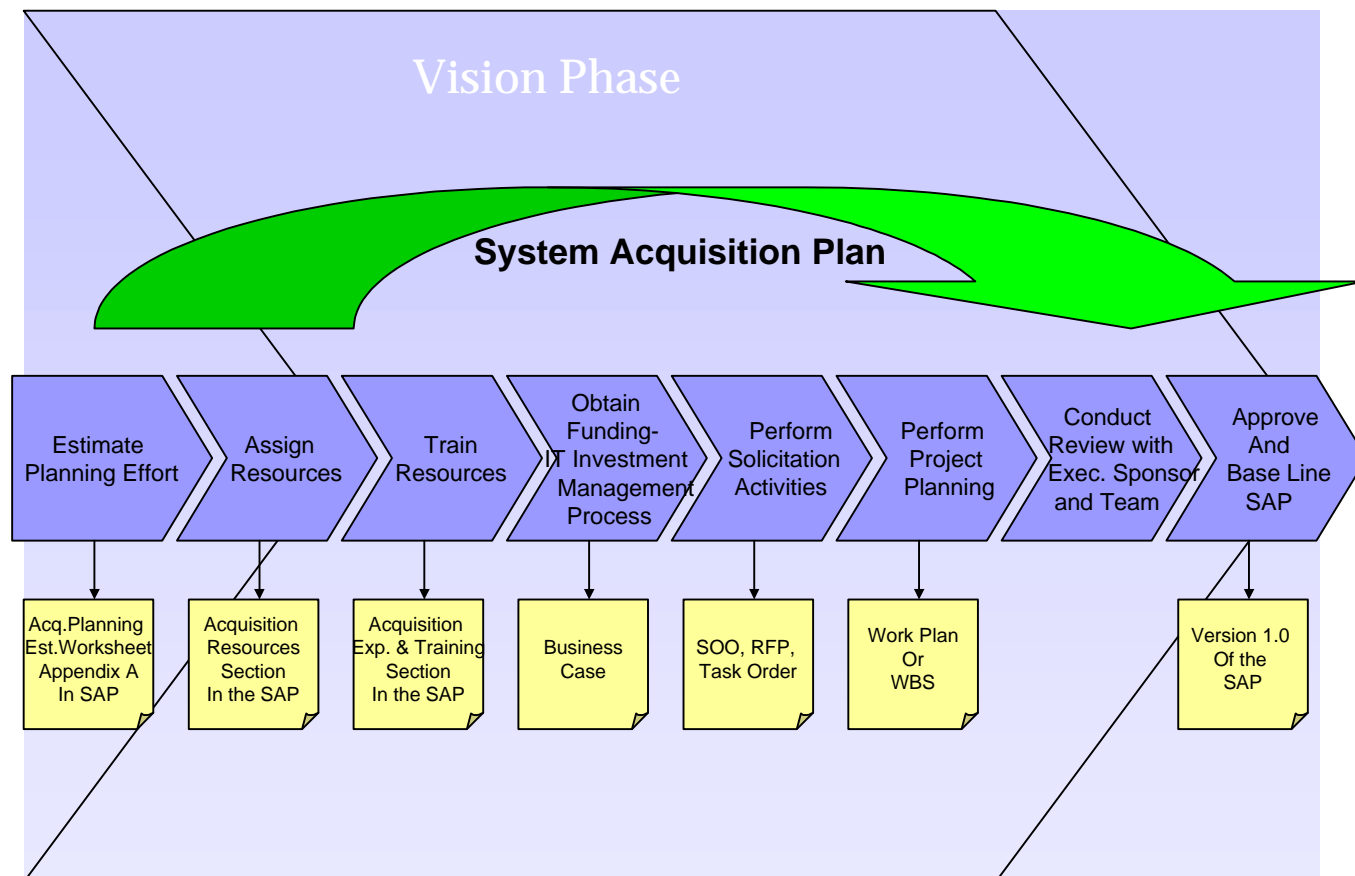
SAP Objectives

As described in the Vision phase of the SDLC, SAP begins when it is determined that systems will be acquired.

- A well developed Acquisition Strategy is documented
  - Templates and defined procedures have been developed for use.
  - All work product templates have been approved by executives and will facilitate the process.
- A reasonable, documented planning effort takes place
  - Executive are aware of what your project will deliver.
  - Executives are aware of what your project will not deliver.
  - Expectations are managed.
- Plan, account manage, and measure Acquisition costs and support
  - A firm foundation is established to build your work breakdown structure.
- Clearly define SFA personnel responsibilities
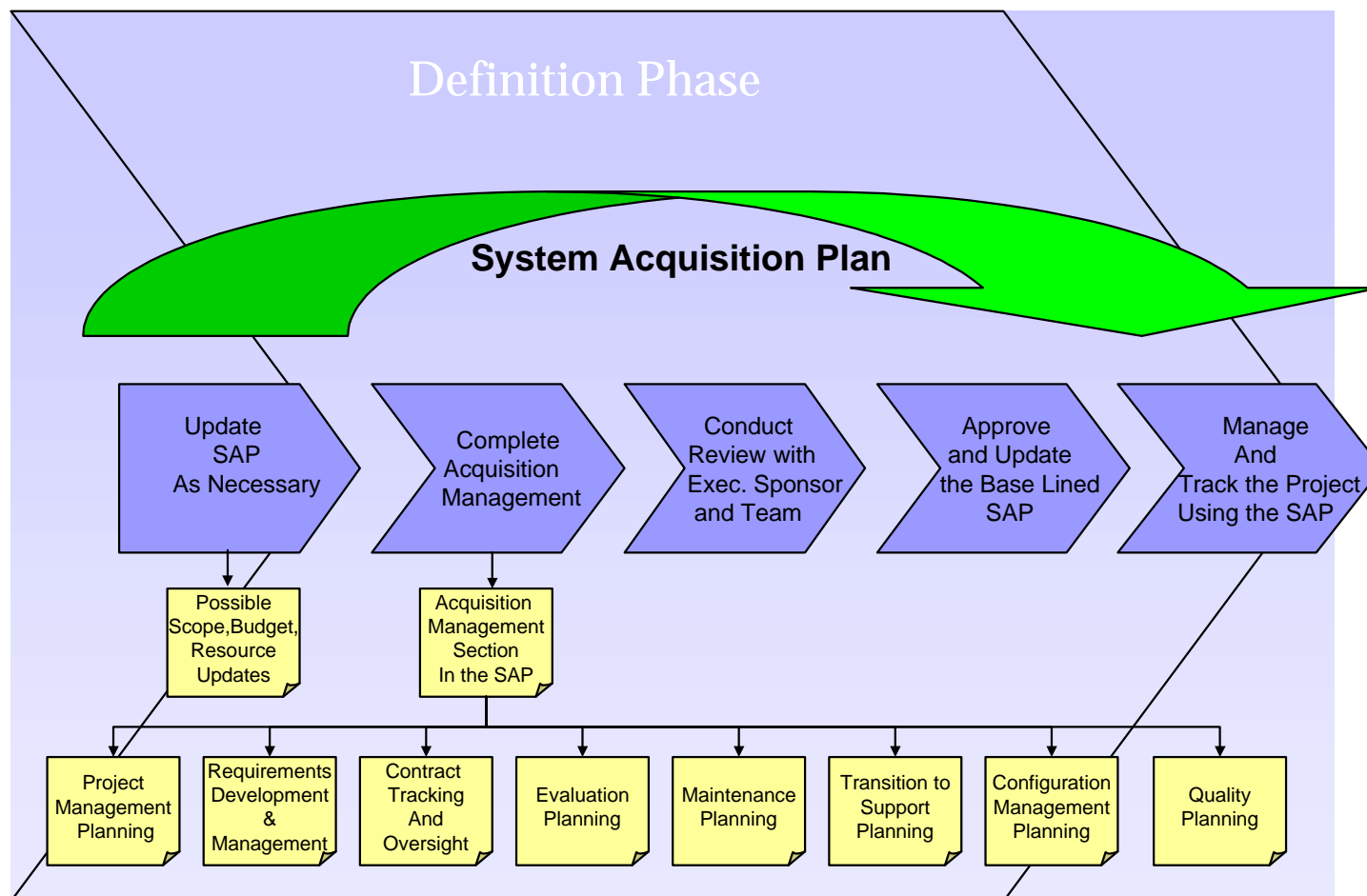- Quality process = Quality product

The System Development Life Cycle provides the processes and procedures for Systems Acquisitions. SAP begins during the Vision phase of the SDLC.

SAP planning activities are continued during the Definition Phase of the SDLC.

Definition Phase

System Acquisition Plan

| Update SAP As Necessary | Complete Acquisition Management | Conduct Review with Exec. Sponsor and Team | Approve and Update the Base Lined SAP | Manage And Track the Project Using the SAP |

Possible Scope,Budget, Resource Updates

Acquisition Management Section In the SAP

| Project Management Planning | Requirements Development & Management | Contract Tracking And Oversight | Evaluation Planning | Maintenance Planning | Transition to Support Planning | Configuration Management Planning | Quality Planning |

- SAP High Level Process Flow

- SAP Template

- SAP Process Guide

- Acquisition Planning Estimating Worksheet

- Acquisition Planning Estimating Procedures

- Planning Policy

SAP Knowledge

- SDLC and SA-CMM
- SAP Definition
- SAP in the SDLC
- Benefits of SAP

- Questions?